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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,274	12/02/2003	KUO-CHIANG CHEN	20.2894 1273		
	7590 03/19/200 GER OILFIELD SERV	EXAMINER			
200 GILLINGHAM LANE MD 200-9 SUGAR LAND, TX 77478			AURORA, REENA		
			ART UNIT	PAPER NUMBER	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS		03/19/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Ap	pplicant(s)	
Office Action Summary		10/707,274		HEN ET AL.	
		Examiner	Ar	t Unit	
	· · · · · · · · · · · · · · · · · · ·	Reena Aurora		62	
Period fo	The MAILING DATE of this communication apports. The MAILING DATE of this communication apports.	pears on the cover s	heet with the corre	espondence ac	ldress
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRICT OF THE MAILIN	ATE OF THIS CON 136(a). In no event, however will apply and will expire SIX a, cause the application to be	IMUNICATION. r, may a reply be timely for the necessary of the necessary	iled nailing date of this c 5 U.S.C. § 133).	
Status					
. 1)⊠ 2a)⊠ 3)□	Since this application is in condition for allowa	s action is non-final. nce except for form	al matters, prosec		e merits is
	closed in accordance with the practice under t	Ex parte Quayle, 19	35 C.D. 11, 453 C	D.G. 213.	
Disposit	ion of Claims			•	
5)	Claim(s) 31 - 37 and 61 is/are pending in the at 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 31 - 37 and 61 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from considerati			
Applicat	ion Papers				
	The specification is objected to by the Examine	er.			
•	The drawing(s) filed on is/are: a) acc		ted to by the Exa	miner.	
	Applicant may not request that any objection to the	drawing(s) be held in	abeyance. See 37	CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	tion is required if the o	drawing(s) is objecte	ed to. See 37 C	FR 1.121(d).
11)	The oath or declaration is objected to by the Ex	xaminer. Note the a	ttached Office Ac	tion or form P	TO-152.
Priority (under 35 U.S.C. § 119				
12) a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been receiv ts have been receiv ority documents hav uu (PCT Rule 17.2(a	ed. ed in Application le been received in))).	No	Stage
2)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	5) N	terview Summary (PT aper No(s)/Mail Date. otice of Informal Pater	·	
Pape	er No(s)/Mail Date	6)	ther:		

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DETAILED ACTION

This communication is in response to amendment received on 01/04/07.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Applicant has added new claim 61.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 31 – 37 and 61 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (6,933,726).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claims 31 – 37, Chen et al. (hereinafter Chen discloses) an apparatus and method for reducing borehole current effects comprising a sleeve (11) having an outer

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surface and an inner surface, the sleeve (11) adapted to be disposed over the antenna array (15, 16, 17) such that the outer surface is directed outward from the mandrel (51); and an electrode (12) disposed within a hole formed through the sleeve (11) between the outer surface and the inner surface and adapted to conductively connect to the mandrel (51), the electrode having an external section (51a) that is larger than a base section (not labeled), the external section (51a) positioned proximate the outer surface and the base section disposed within the hole proximate the inner surface (Note fig. 2, 3 and 8).

As to claim 61, Chen discloses that the external section (52a) includes an exposed outside surface area positioned relative to the sleeve (12) and the hole for exposure to the borehole environment, and wherein a surface area of the exposed outside surface (52a) is substantially larger than a cross-sectional area of the base section (Note fig. 8).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Response to Arguments

Applicant's arguments filed on 01/04/07 have been fully considered but they are not persuasive. Applicant's argument that any "hole formed through the sleeve" terminates at the interface 61. However the claim limitation states, "a hole formed through the sleeve between the outer surface and the inner surface" and Fig. 8 of Chen clearly discloses a hole formed through the sleeve between the outer surface and the inner surface.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Reena Aurora

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